CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-12-05-03**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore. **Date: 08-12-17**
Address	:	Project Division, BBMP, Bangalore.
Project Name	:	Improvements building and civil works at Mallasandra Colony School in Mallasandra Ward no.13
Agency	:	Executive Engineer, KRIDL, No.80, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	ಬಿಬಿಎಂಪಿ/ಕಾಪಾಲ/ಯೋಪಿ/ಪಿಆರ್/08/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-17
Sample ID No	:	2017-12-05-03/04
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-12-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	150	200	12030	24.230	2014.1	1994.8	Not less than 1800Kg/m^3
2	400	151	201	12140	23.640	1947.2		
3	402	150	201	12120	24.520	2023.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.890	24.510	5.63	5.29	Shall not be more than 10% by mass
2	24.790	23.570	5.18		
3	24.890	23.690	5.07		

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Lab ID : **CP-2017-12-05-03** **Date: 08-12-17**

Sample ID No : **2017-12-05-03/04**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	150	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	152	201	
3	401	151	202	
4	400	150	200	
5	401	152	203	
6	400	150	201	
7	402	153	201	
8	400	150	200	
9	402	151	201	
10	400	152	203	
11	402	150	202	
12	402	151	201	
13	401	151	202	
14	400	150	201	
15	403	152	200	
16	401	150	202	
17	400	151	201	
18	401	150	200	
19	400	151	202	
20	402	150	201	
Average of 20	**401**	**151**	**201**	

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Lab ID : **CP-2017-12-05-03**

Date: 08-12-17

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COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	150	60150	247.4	4.1	3.9
2	402	152	61104	223.4	3.7	
3	401	151	60551	231.5	3.8	
4	400	150	60000	239.2	4.0	
5	401	152	60952	234.5	3.8	
6	400	150	60000	240.1	4.0	
7	402	153	61506	239.4	3.9	
8	400	150	60000	237.4	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate .

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-12-11-03** **Date: 16/12/2017**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Address	:	Project Division, BBMP, Bangalore.
Project Name	:	Improvements building and civil works at Mallasandra Colony School in Mallasandra Ward no.13
Agency	:	Executive Engineer, KRIDL, No.80, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	ಬಿಬಿಎಂಪಿ/ಕಾಪಾಅ/ಯೋಪಿ/ಪಿಆರ್/08/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-17
Sample ID No	:	2017-12-11-03/01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	09/12/2017	16/12/2017	149.11 X 150.24 X 150.47	22402	8.265	385.3	17.2	17.2
2	PCC	M20	09/12/2017	16/12/2017	150.33 X 150.47 X 151.12	22620	8.172	380.0	16.8	
3	PCC	M20	09/12/2017	16/12/2017	149.87 X 150.66 X 150.78	22579	8.241	395.1	17.5	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-11-03** **Date: 06/01/2018**

Customer : Assistant Executive Engineer, Project Division, BBMP, Bangalore.

Address : Project Division, BBMP, Bangalore.

Project Name : Improvements building and civil works at Mallasandra Colony School in Mallasandra Ward no.13

Agency : Executive Engineer, KRIDL, No.80, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010

Customer's Reference : ಬಿಬಿಎಂಪಿ/ಕಾಪಾಅ/ಯೋಪಿ/ಪಿಆರ್/08/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-12-17

Sample ID No : 2017-12-11-03/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	09/12/2017	06/01/2018	150.22 X 150.87 X 149.11	22664	8.214	509.9	22.5	22.0
2	PCC	M20	09/12/2017	06/01/2018	151.14 X 150.47 X 150.47	22742	8.192	491.2	21.6	
3	PCC	M20	09/12/2017	06/01/2018	149.87 X 149.82 X 149.32	22454	8.185	491.7	21.9	

Note:

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